

**Notice of Allowability**

Application No.

10/680,464

Examiner

Thinh T. Nguyen

Applicant(s)

SMITH ET AL.

Art Unit

2818

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/6/2005.
2. ☒ The allowed claim(s) is/are 1-7, 9-12, 18, 21-34 and 36.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Nguyen Van Ngo*  
Primary Examiner

## **DETAILED ACTION**

### **Reason for allowance**

1.. Claims 1-7,9-12,18,21-34,36 are allowed. The following is an examiner's statement of reason for allowance:

#### **I/ Group I: Claims 1-7:**

Claims 1-7 are allowed because none of the references of record teaches or suggests the claimed **MAGNETIC MEMORY DEVICE** having the limitations:

-- "A magnetic memory comprising: a first line having a first cross-sectional area; a second line having a second cross-sectional area different than the first cross-sectional area; and a magnetic memory cell stack positioned between the first line and the second line; wherein the first and the second line are T-shaped. "--

as recited in claim 1.

#### **II/ Group II: Claims 9-12:**

Claims 9-12 are allowed because none of the references of record teaches or suggests the claimed **MAGNETIC MEMORY DEVICE** having the limitations:

-- " A magnetic memory comprising: a magnetic memory cell stack; a magnetic

memory line for carrying a current, located adjacent the magnetic memory cell stack, the magnetic memory line including a first region with a first width and a second region with a second width smaller than the first width; and a second magnetic memory line for carrying a current located adjacent the magnetic memory cell stack, the second magnetic memory line including a third region sized with the first width and a fourth region sized width the second width.”—

as recited in claim 9.

### **III/ Group III: Claims 18,21-28:**

Claims 18,21-28 are allowed because none of the references of record teaches or suggests the claimed **MAGNETIC MEMORY DEVICE** having the limitations:

-- “A magnetic memory cell, comprising: a first line having a first width and a second width, where the first width is greater than the second width; and a memory cell stack having a first side adjacent the first line along the second width; and a second line having a third width and a fourth width, wherein the third width is greater than the fourth width and the memory stack is adjacent the second line along the fourth width. “--

as recited in claim 18.

### **IV/ Group IV: Claims 29-36:**

Claims 29-36 are allowed because none of the references of record teaches or suggests the claimed **MAGNETIC MEMORY DEVICE** having the limitations:

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-- "A magnetic memory device, comprising: an array of magnetic memory cells; and first lines crossing the array of magnetic memory cells, the first lines having a first section and a second section, where the first section is wider than the second section and ,second lines crossing the array of magnetic memory cells wherein the first and the second lines are T- shaped. "—

as recited in claim 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

### Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-1790. The examiner can normally be reached on Monday-Friday 9:00am-6:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached at 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9319 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval [ PAIR ] system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thinh T Nguyen



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Ngan Van Ngo  
Primary Examiner